

Section 2.1 - Relevant Documents

Prodn. of lower olefin(s) and benzene - by pyrolysis of hydrocarbon crude in presence of water vapour, using cyclopentene as coking inhibitor.

Abstract SU 1198097 A UPAB: 19930922

Use of cyclopentene (I) as coking inhibitor in prodn. of lower olefins and benzene by pyrolysis of hydrocarbon crude in the presence of water vapour and (I), reduces the coking and increases the yield of the prods. The inhibitor I) is used in amts. of 0.1-1.0 wt. %, with crude:water = 2:1. Tests show that use of (I) instead of DMSO reduces the coking by 7-15 times, and increases slightly the yield of lower olefins.

Advantage - Higher yields, reduced coking.

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